						·					
Work Order II Tuesday, October 07,				*125	5258*						Page 1
Revision ID:	91-023 Fube Assembly	y		Accept	*N900	040	100)*	Setup Star		S1* S2*
Start Date: 9/25/ Required Date: 10/06 Reference:	'14 St a	art Qty: 1.00 q'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:				1 3	
		Mrz	Date: 14-10-08	Tooling: _ SPC (Y/N):		nte:]	Run Stai Stoj	^!\	R1*
Sequence ID/ Work Center ID	_	eration scription		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision	Nbr									
D3391	I										
100				0.00			· · · · · · · · · · · · · · · · · · ·				
100 Skidtubes Skidtubes	Skic	2-Drill pilot saddle hole 3-Open sade "J" 4-Remove . 5-Remove i 6-Deburr	to finish length as per Dwg I holes using DT8796 (Do no on one side only as per Dwg dles and GHW holes to Ø0.4 030" from Fwd indexing Ricandexing ridge on Fwd & Aft was 103391-021 in D3391-023 at 9	ot drill "B" holes) and dr D3391 375" exept for fwd sadd lge as per Dwg D3391 end of skidtube as per I	fle hole of detail) /4	2/-/6	5-9	>
		8- Transfer remaining f dia hole, us tranfer drill	drill one fwd saddle hole on fwd saddle holes using DT 8: ing t-pins and clicos to ensu ed pilot holes in D3391-023, SIDE ONLY drill out 2nd ar	ly to .188" dia, transfer 149 locating from previu re perfect allingment, op 1-021 using drill press.	usly drill .188" pen up previusly		14.	· - //:	- //		

per
ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499".
D3391-021 BATCH: 12 5 229

DQA:			Date:			WORK ORDER NON	-00	NEOF	RMANCE / HPDATE				DART
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Work Orde	er:					DISPOSITION			AGAINST	DE	PARTMENT	PROCESS	
Part N	- - No.	7.				Rework Scrap Use-as-is Suspected Unapproved		Therm	Skid-tube Crosstube Machining Small Fab noforming Finishing Large Fab Composite		-	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Desci	ription of work order update	1	nitial	Action		Sign &		
Cause	ļ	Date	Step	Qty		or non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproxed													
							FAI	ULT CAT	EGORY				
Landi	ding Gear Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Inspection Strip in Tube Marks/Chatter			/Wave		General Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short Drawing Drill Holes		Instruct	re on Incomplete/Unqualified ions Incomplete/Unclear ned/off center		Outside Dim Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	tolerance ct ssing Vrong	Pressure/Forced Set-up Temperature/Cure Weld Wrong Stock Pulled Other
	Turning Sequence					Finish	<u> </u>	4	Calibration			· ·	
		Wave/Tw		e		Fit/Function		4	Sequence		 		

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Tuesday, October 07, 2014 10:39:23 AM Item ID: D3391-023 Accept *N900040100* Start Setup **Revision ID:** Stop **Item Name:** Mid Tube Assembly *1* **Start Date:** 9/25/14 Start Oty: 1.00 **Cust Item ID:** Required Date: 10/06/14 **Reg'd Oty:** 1.00 *1* **Customer:** Reference: Run Start Process Plan: Date: _____ Approvals: Tooling: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. **Work Center ID Description** Code **Run Hours** Oty Number Oty Stamp 9- Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with ***DO NOT DRILL HOLES #3-19-20 FROM FWD END OF JIG Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (10 holes) as per Dwg D3391 Open wearplate holes of D3391-023 assembly detail-section-H-H-to-Ø0.297" (20 holes) as per Dwg D3391 ***DO NOT OPEN 2 MOST FWD WEARPLATE HOLES*** Deburr and blow out all chips from inside tube, scribe batch # in D3391-023 at aft end. 10- Locating from two fwd wearplate holes in D3391-023 drill remaining 6 wearplte holes in D3391-021 using DT8937 11- Open 10 wearplate holes in D3391-021 to 0.297" dia. DAS 110 38 QC5- Inspect part completeness to step on W/O 0.00 *110* OC 0.00 Memo

Quality Control

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DQA:		•	Date:			WORK ORDER NON	-C(ONEO!	RMANCE / LIDDATE				**	DART
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Work Orde	er:					DISPOSITION			AGAINS	ΓDE	PARTMENT	/PROCESS		
Part N NCR N	_				_	Rework Scrap Use-as-is Suspected Unapproved			Skid-tube Crosstube Machining Small Fal noforming Finishing Large Fab Composite		4	Water Jet d. Eng. Coor. re/Packaging Supplier		Engineering Quality Other
Root	T				Desc	ription of work order update		Initial	Action		Sign &			
Cause	ļ	Date	Step	Qty	,	or non-conformance	Cr	nief Eng	Description		Date	Verification	۱	QC Inspector
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Landir	ng G	ear				General								
	anding Gear Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Inspection Strip in Tube					Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short		Grain Hardwa Inspect Instruct Misalig	ion Incomplete/Unqualified tions Incomplete/Unclear gned/off center eled		Outside Dim Over/Under Part Incorre Part Lost/M Part Moved Positioned V Power Loss/	tolerance ct issing Vrong		Pressure/Forced Set-up Temperature/Cure Weld Wrong Stock Pulled Other
	Щ'	nspectio	n Strip in	Tube		Drawing	L	Misrea	d					
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Tuesday, October				*1 <i>ツ</i> !	っとりお							Page 3
Item ID: Revision ID:	D3391-023			Accept	*N900	<u>ი</u> 40	100)* s	etup St			S1*
Item Name:	Mid Tube Ass	·							51	ob 🛪	·N:	S2*
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	QC:		Date:	SPC (Y/N):	Da	ıte:			St	op 🛪	·NI	₹2*
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120 HandFinish Hand Finishing —		Memo		0.00			-		11 <u>-12</u>	4/-	<u></u>	
120		OCZ Isszer Charical (Description Conf.	0.00	,					200	***************************************	Joseph John Marie Contraction of the Contraction of
130		QC7-Inspect Chemical (Conversion Coat	0.00				į	1		di	17
120 QC Quality Control		Memo		0.00					&			-1

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Part N					Rework Scrap Use-as-is Suspected Unapproved		ſ	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	Pro	d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root Cause	Date	Step	Qty	Desc	ription of work order update or non-conformance	ļ	nitial iief Eng	Act	ion iption	Sign & Date	Verification	QC Inspector
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			· · · ·			FAI	ULT CAT	EGORY				
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Tuesday, Octob	er 07, 2014	10:39:23 AM		*175	いといれか							Page	e 4
Item ID: Revision ID:	D3391-023			Accept	*N900	040	100)*	Setup	Start	*N	S1*	
Item Name:	Mid Tube A	ssembly								Stop	*N	S2*	
Start Date:	9/25/14	Start Qty: 1.00	*1*		Cust Item I	D:						,	
Required Date	: 10/06/14	Req'd Qty: 1.00	*1*		Customer:								
Reference:			-										
Approvals:	Process P	lan:	_ Date:	Tooling:	Da	ate:]	Run	Start	*N	R 1*	.
	QC:		_ Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*	:
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150		QC5- Inspect part compl	eteness to step on W/O	0.00									9-99
150 QC QC		Memo		0.00				_/	Ø	<u> </u>	14-1	1-13	_

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						WORK ORDER NON	-CC	ONFO	RMANCE / L				-		AEROSPACE
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		Centre No	ot Concer	ntric		BOM/Route		Grain				Over/Under	tolerance		Set-up
		Cracks				Broken/Damage/Defect	L	Hardwa	ire	L		Part Incorred	it [Temperature/Cure
		Crimp/Kir	nk/Ripple	/Wave		Burrs		Inspecti	ion Incomplete/l	Jnqualified		Part Lost/Mi	ssing		Weld
		Cuffs				Contamination		Instruct	ions Incomplete	/Unclear		Part Moved		\Box	Wrong Stock Pulled
,		Crushing				Countersink		Misalig	ned/off center			Positioned V			
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Work Orde Tuesday, Octobe					*1	25	258*							Page 5
Item ID: Revision ID: Item Name:	D3391-023				Accept	14	*N900	04 0	100)*	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:	9/25/14 10/06/14	Start Qty: 1.00 Req'd Qty: 1.00		*1* *1*			Cust Item II Customer:	D:						,
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Sequence ID/ Work Center II 160 *160* Skidtubes Skidtubes)			as per dwg D	Set Up/ Run Hot 0.00 0.00 3391 & QSI 004		Tool ID 100 Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
170 *170* QC Quality Control		2-grind weld QC10- Inspect visual per		ound welds	0.00						_14-	12.0	01	DAS 9 9-89
180 *1 20 *		QC5- Inspect part compl	eteness to si	ep on W/O	0.00						M_	<u>VL</u> 4	<i>)</i>]	DAS

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Quality Control

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			k/Ripple	/Wave	<u> </u>	Burrs		⊣ `	ion Incomplete/Unqualific		Part Lost/Mi	ssing		Weld
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Work Ord Tuesday, October					*12!	5258*							Page 6	
Item ID: Revision ID: Item Name:	D3391-023			Star	Accept	*N900	040	100)* ፡	Setup Si			S1* S2*	
Start Date: Required Date: Reference:	9/25/14 : 10/06/14	Start Qty: 1.00 Req'd Qty: 1.00		*1* *1*		Cust Item 1 Customer:	ID:							
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Sequence ID/ Work Center II 185 *1 Q 5 * HandFinish Hand Finishing		Operation Description Pressure Wash per QSI00 Memo AND REAL	O5 4.3 ODINE AS PE	R PAR09-(Set Up/ Run Hours 0.00 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	N	eject imber 14-12	Insp. Stamp	
190 *1Q *Powdercoat Powder Coating		Memo START TIM	99 808 1e: 5:30 iperature:	- 320	0.00 0.00 .					f.	14-1	12-5	, de 8	
200 *200* QC Quality Control		QC3- Inspect Part Finish Memo			0.00				_1x		M	(A	ulse	DAS 15 9-89

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Cause	Date	Step	Qty		or non-conformance	ļ	nief Eng		ription		Date	Verification	QC Inspector
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8	Bending				Bend]Folio/P	rogram			Outside Dim	ensions [Pressure/Forced
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	Cuffs				Contamination	\vdash	1	ions Incomplete/	,		Part Moved		Wrong Stock Pulled
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Work Ord				*125	5258*							Page 7
Item ID: Revision ID: Item Name:	D3391-0 Mid Tube	23 Assembly		Accept	*N900	040	100	ገ*	Setup	Start Stop	171	S1* S2*
Start Date: Required Date: Reference:	9/25/14 10/06/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item 1 Customer:	ID:						
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	QC:_		Date:	SPC (Y/N):	D:	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accep Qty	t Reje Qty		Reject Number	Insp. Stamp
230 *230 *230 *Against HandFinish Hand-Finishing		HandFinishing Memo 1-Install Ins	erts as per Dwg	0.00				14		الر	L u	disloca
240 *240*		QC5- Inspect part compl	eteness to step on W/O	0.00				t				B
QC Quality Control		Мето		0.00								14-12-18
²⁵⁰		Identify as per dwg & St	ock Location:(U)()	0.00 D41C-	-742-043/[31264	١٧	()		1	III	Midae
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Memo

Packaging

DQA:		. Date:													
					WORK ORDER NON-CONFORMANCE / UPDATE Work Order update only Work Order update only										
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	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Rework			Skid-tube	Crosstube	7	Water Jet	Engineering			
Part N	Part No.				Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	Quality			
					Use-as-is		Therr	noforming	Finishing	Rec/Sto	re/Packaging	Other			
NCR N	NCR No.				Suspected Unapproved			Large Fab	Composite		Supplier				
Root				Desci	ription of work order update	1	nitial	Acti	ion	Sign &					
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	iption	Date	Verification	QC Inspector			
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ŀ	Bending	_		-	Bend		1	rogram	-	Outside Dim	 -	Pressure/Forced			
}	Centre No	ot Concer	ntric	_	BOM/Route	<u> </u>	Grain		<u> </u>	Over/Under		Set-up			
-	Cracks				Broken/Damage/Defect	_	Hardwa		<u> </u>	Part Incorred	 	Temperature/Cure			
•	Crimp/Kir	ık/Ripple	/Wave	_	Burrs		1	ion Incomplete/Un	· -	Part Lost/Mi	ssing	Weld			
-	Cuffs				Contamination		1	ions Incomplete/U	Inclear	Part Moved		Wrong Stock Pulled			
}		Crushing Countersink			<u> </u>	1	ned/off center	<u> </u>	Positioned V	· —	¬				
}	Heat Trea				Cut Too Short	_	Mislabe		L	Power Loss/	Surge	Other			
}	Inspection Strip in Tube Drawing			-	-	Misread									
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	Turning S			<u> </u>	Finish	<u> </u>	4	Calibration							
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Work Order Tuesday, October	_			*125				Page 8				
Item ID: Revision ID: Item Name:	D3391-023			Accept	*N900	<u>040</u>	100)*	Setup	Start Stop	1/1	S1* S2*
Start Date: Required Date: Reference:	9/25/14 Start Qty: 1.00 10/06/14 Req'd Qty: 1.00		*1* *1*		Cust Item ID: Customer:							
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QC21- Final Inspection - Work Order Release

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Quality Control

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DQA:		~	Date:											
						WORK ORDER NON-CONFORMANCE / UPDATE								
QA Closed:			Date:				·			V	Vork Order up	date only		
Work Orde	er:					DISPOSITION				AGAINST D	EPARTMENT,	PROCESS		
	•					Rework			Skid-tube Crosstube			Water Jet	Engineering	
Part N	Part No.				Scrap			Machining Small Fab			d. Eng. Coor.	Quality		
	•					Use-as-is		Therr	noforming	Finishing	Rec/Stor	e/Packaging	Other	
NCR N	۱о.	——————————————————————————————————————				Suspected Unapproved			Large Fab	Composite		Supplier		
Root		-			Desci	ription of work order update	l	nitial	Ac	tion	Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector	
Design				:										
Doc/Data				·										
Equip/Tooling				•										
Handling/Pre														
Material														
Operator		-			İ		1							
Offset/Setup														
Process														
Supplier														
Training														
Transport														
Unapproved								UTCA	TECODY.					
Londia		`~~					FAU	ULI CA	TEGORY					
Landi:	\neg	Bending				General Bend		lealia/r)rogram	Г	Outside Dim	ansions [Pressure/Forced	
		Centre No	t Cancar	stric	-	BOM/Route	\vdash	Grain	Program	-	Over/Under		Set-up	
		Cracks	it concer	ILITE		Broken/Damage/Defect	\vdash	Hardwa)ro	-	Part Incorred	<u> </u>	Temperature/Cure	
		Crimp/Kin	k/Rinnle	/\\/\2\/0	-	Burrs	\vdash	1	ire ion Incomplete/U	Inqualified	Part Lost/Mi	⊢	Weld	
}	\neg	Cuffs	in nippie,	, wave		Contamination		1	tions Incomplete/	· -	Part Moved	- Sallig	┥	
ŀ		Crushing			-	Countersink	\vdash	1	gned/off center	 	Positioned V	L_ Vrong	Wrong Stock Pulled	
Ì	F-1 * F1			Cut Too Short	_	Mislabe	_	<u> </u>	Power Loss/		Other			
ł	Inspection Strip in Tube				Drawing	\vdash	Misrea		L			o and		
	Marks/Chatter				-	Drill Holes	-	Off-set			 .			
ľ	H				Finish		ł	Calibration						
 	Wave/Twist in Tube					Fit/Function		i	Sequence					

Picklist Print

Tuesday, October 07, 2014 10:39:22 AM

Work Order ID: 125258

125258

Parent Item:

D3391-023

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 9/25/14

Required Date: 10/06/14

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A05.10.20New Issue KJ/EC EC IPP B06.02.10ECN773 dwg rev.D

IPP C 07.03.20 rev F dwg EC EC IPP D 07.03.28 re-format EC IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	57.0000	1	146			
D2500-1-	-100			- (- 7.000				**	1	-) -/ <u>/</u>	1=11	9-9
Skidtube Extrusion				Location		Loc C	<u>Oty</u>	Loc Code		1		7 C	ζ
				HALL			57		7)-		-		
				/ 	82373 86065		8 49		<i>O</i> -		<u>.</u>		
D3389-1		Manufactured	No			140	Each	6.0000	1	1	11 .0	11	
D3389-1	k								**	14-	-11-12	[]] <u>[</u>	
Web				Location		Loc C	<u>Oty</u>	Loc Code				χ	
				LG /			6		7		. 🗸		
					115652		6		+	\mathcal{D}	-		

DQA:	¬	Date:	WORK ORDER NON-CONFORMANCE / UPDATE									DART	
QA Closed:		Date:			WORK ORDER NON-	-((JNFOI	RIVIANCE / U	PDATE	Wo	ork Order up	date only	AEROSPACE
Work Orde	r:				DISPOSITION				AGAINST	DE	PARTMENT		
Part No					Rework Scrap Use-as-is Suspected Unapproved		Skid-tube Crossi Machining Small Thermoforming Finis Large Fab Compo				l	Water Jet d. Eng. Coor. ge/Packaging f Supplier	Engineering Quality Other
Root		1		Desci	iption of work order update	1	nitial	Ac	tion		Sign &	***************************************	
Cause	Date	Step	Qty	 	or non-conformance	!	ief Eng		ription		Date	Verification	QC Inspector
Design													
Doc/Data													
Equip/Tooling													
Handling/Pre													
Material .													
Operator										İ	:		2
Offset/Setup													
Process	_												
Supplier													
Training	-												
Fransport -	7					1							
Jnapproved	_				·								
		1	<u> </u>	L		FΔI	ULT CAT	FGORY					
Landin	g Gear				General								·
Γ	Bending				Bend		Folio/P	rogram			Outside Dim	ensions [Pressure/Forced
f		ot Concer	ntric		BOM/Route		Grain	· og. am			Over/Under		Set-up
-	Cracks				Broken/Damage/Defect	<u> </u>	Hardwa	re			Part Incorred	 	Temperature/Cure
	_	nk/Ripple	/Wave		Burrs	\vdash	1	on Incomplete/U	ngualified		Part Lost/Mi		Weld
					Contamination	_	1	ions Incomplete/			Part Moved	· ·	Wrong Stock Pulled
<u> </u>	 			Countersink	\vdash	4	ned/off center			Positioned W		Jong Stock runed	
ŀ				Cut Too Short		Mislabe			-	Power Loss/		Other	
ŀ				Drawing	_	Misread				1 2 2 . 2 . 2 . 3 . 7 .			
<u> </u>				Drill Holes	Off-set					 			
	Turning S				Finish	Out of Calibration					. 1.		
	Wave/Tw	•			Fit/Function		Out of S						

Tuesday, October 07, 2014 10:39:22 AM

Work Order ID: 125258

125258

D3391-023

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 9/25/14

**

Required Date: 10/06/14

BB14-11-13

Start Qty: 1.00

Required Qty: 1.00

D3681-1

Manufactured

160

Each

83.0000

Spacer

Location	Loc Qty	Loc Code
LG	80	
123088	40	
(f23490)	40	
LG001	3	
114884	3	

ALS4-1032-130

AELS4-1032-130 Purchased

No

230 Each

3,693.000

**

20

AI S4-1032-130

Rivnut

Location	Loc Oty	Loc Code	
ST267	3693		
M126109	57		
M128211	48		
M128649	3588		<u> XZ6</u>

X D3591-1/B115533 (1x) Il 11/12/08

DQA:	Date:									DART					
QA Closed:			Date:			WORK ORDER NON	-CC	ONFO	RMANCE / L		ork Order up	ndate only	AEROSPACE		
QA Closed.			Date.					, 							
Work Ord	er:				i	DISPOSITION	į			/PROCESS					
	•					Rework	Rework			Crosstube	7	Water Jet	Engineering		
Part 1	Part No.				Scrap	1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality				
					Use-as-is		Thern	noforming	Finishing	Rec/Stor	e/Packaging	Other			
NCR I	NCR No.				Suspected Unapproved			Large Fab	Composite		Supplier				
Root					Desci	ription of work order update		nitial	Ac	ction	Sign &		T		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector		
Design	Ш														
Doc/Data	Щ														
Equip/Tooling															
Handling/Pre															
Material															
Operator	_														
Offset/Setup															
Process	Н														
Supplier	\vdash														
Training Transport															
Unapproved	\vdash				!				* *						
опарриотеа			1	1	<u> </u>		FAI	ULT CAT	regory						
Landi	ng (Gear				General						<u></u>	· · · · · · · · · · · · · · · · · · ·		
		Bending				Bend		Folio/P	rogram		Outside Dim	ensions	Pressure/Forced		
		Centre No	ot Concer	ntric		BOM/Route		Grain	· ·		Over/Under	tolerance	Set-up		
		Cracks				Broken/Damage/Defect		Hardwa	re		Part Incorred	et 📙	Temperature/Cure		
		Crimp/Kir	nk/Ripple	/Wave		Burrs		Inspecti	ion Incomplete/U	Jnqualified	Part Lost/Mi	ssing	Weld		
		Cuffs				Contamination		Instruct	ions Incomplete	/Unclear	Part Moved		Wrong Stock Pulled		
		Crushing				Countersink]Misalig	ned/off center		Positioned V	Vrong			
	Heat Treat				Cut Too Short		Mislabe	eled		Power Loss/	Surge	Other			
	Inspection Strip in Tube				Drawing		Misread	t							
		Marks/Ch	atter			Drill Holes		Off-set							
	Turning Sequence					Finish		Out of 0	Calibration						
	Wave/Twist in Tube					Fit/Function		Out of S	Sequence	Out of Sequence					

